

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV040819\  
 Data File : VV010205.D  
 Acq On : 09 Apr 2019 05:27  
 Operator : SY/MD  
 Sample : K2254-09  
 Misc : 5.04G/10mL/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFC30

Quant Time: Apr 09 07:40:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM040219S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Apr 09 07:35:38 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 150093   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 111103   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 35094    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 35865    | 17.85    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 71.40%   |
| 7) Chloroethane-d5             | 1.56   | 69    | 45059    | 18.05    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 72.20%   |
| 10) 1,1-Dichloroethene-d2      | 2.12   | 63    | 78264    | 15.44    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 61.76%   |
| 20) 2-Butanone-d5              | 3.94   | 46    | 47954    | 83.87    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 167.74%# |
| 24) Chloroform-d               | 4.40   | 84    | 99840    | 26.40    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 105.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 61738    | 29.18    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 116.72%  |
| 29) Benzene-d6                 | 5.09   | 84    | 192575   | 33.42    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 133.68%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 63857    | 37.55    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 150.20%# |
| 37) Toluene-d8                 | 7.36   | 98    | 150081   | 27.04    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 108.16%  |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 13296    | 18.29    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 73.16%   |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 30174    | 88.48    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 176.96%# |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 58715    | 35.01    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 140.04%# |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 40472    | 29.61    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 118.44%  |

## Target Compounds

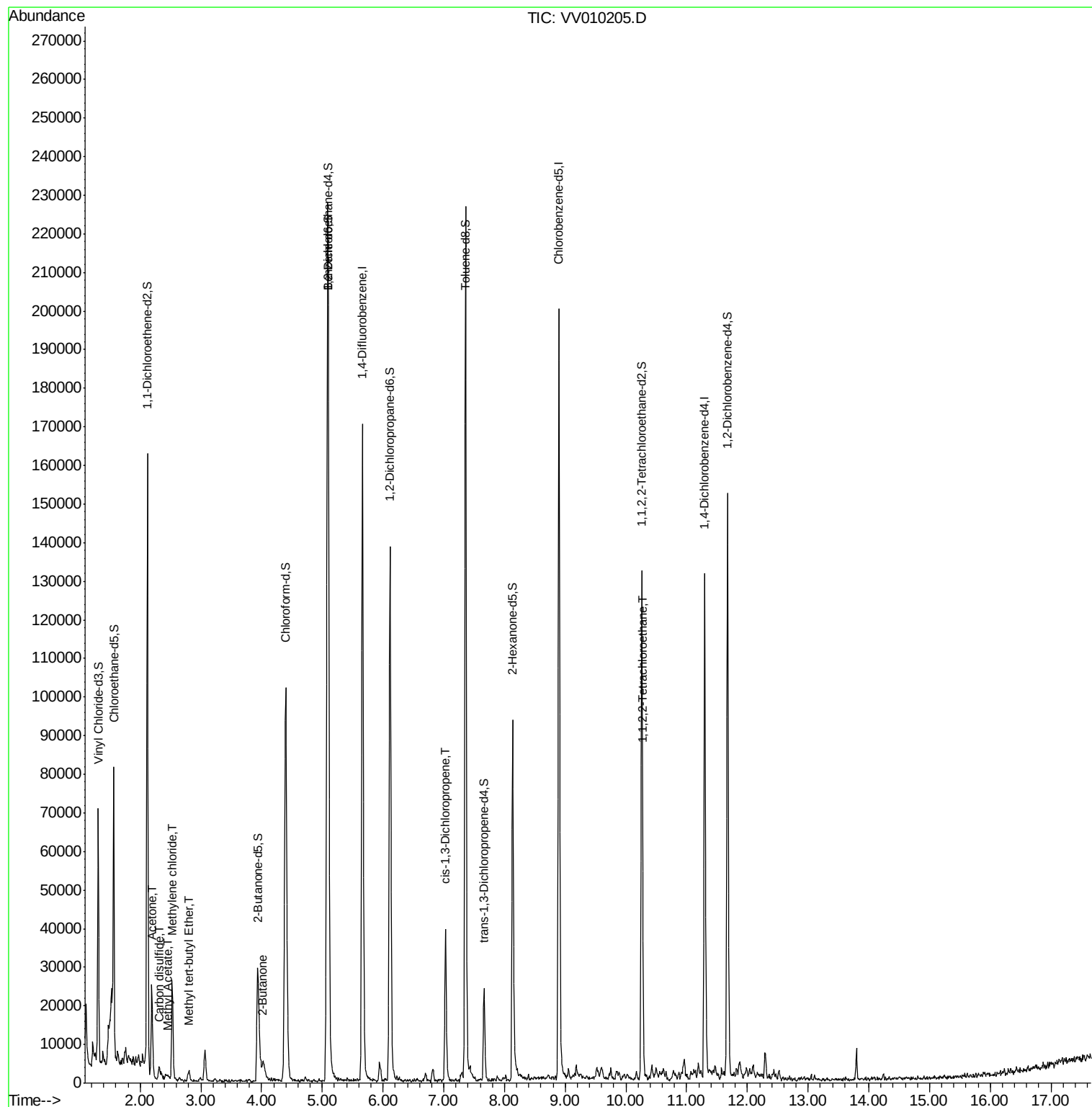
|                               |       |    |       |              | Ovalue |
|-------------------------------|-------|----|-------|--------------|--------|
| 13) Acetone                   | 2.19  | 43 | 22951 | 40.599 ug/L  | 92     |
| 14) Carbon disulfide          | 2.31  | 76 | 2627  | 0.617 ug/L # | 92     |
| 15) Methyl Acetate            | 2.46  | 43 | 924   | 1.022 ug/L # | 71     |
| 16) Methylene chloride        | 2.53  | 84 | 10184 | 3.862 ug/L   | 98     |
| 17) Methyl tert-butyl Ether   | 2.80  | 73 | 2362  | 0.537 ug/L # | 75     |
| 21) 2-Butanone                | 4.03  | 43 | 2554  | 4.125 ug/L   | 99     |
| 42) cis-1,3-Dichloropropene   | 7.03  | 75 | 1381  | 0.695 ug/L   | 87     |
| 58) 1,1,2,2-Tetrachloroethane | 10.28 | 83 | 933   | 0.597 ug/L # | 73     |

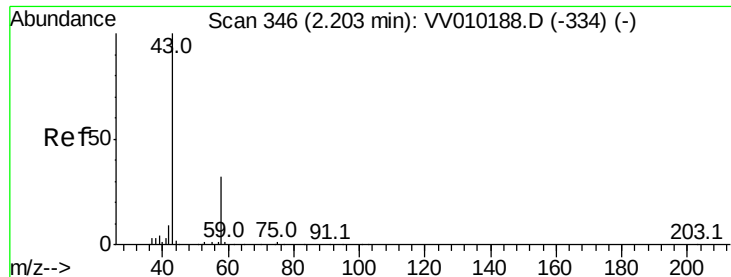
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Tue Apr 09 07:35:38 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 40.599 ug/L

RT: 2.19 min Scan# 343

Delta R.T. -0.01 min

Lab File: VV010205.D

Acq: 09 Apr 2019 05:27

Instrument :

MSVOA\_V

ClientSampled :

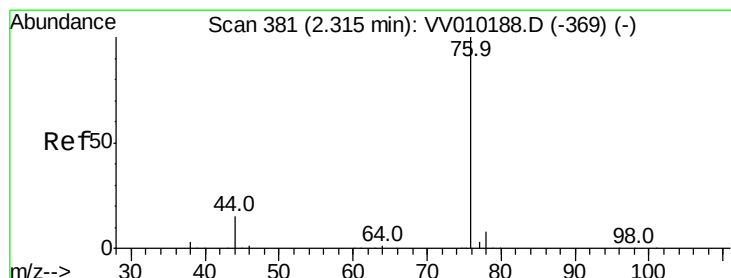
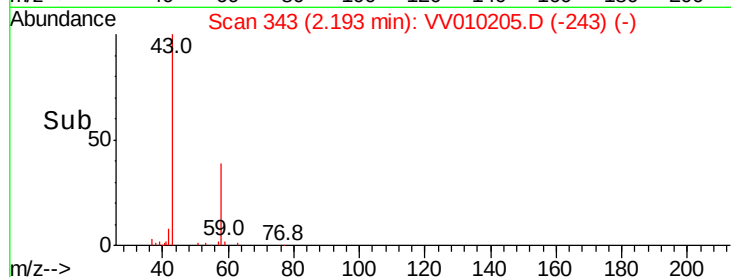
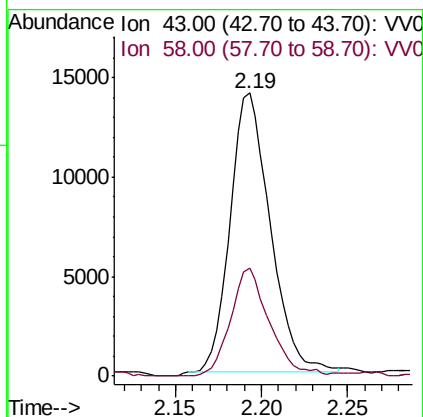
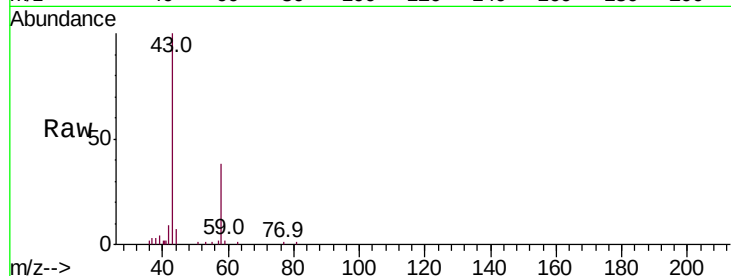
BFC30

Tot Ion: 43 Resp: 22951

Ion Ratio Lower Upper

43 100

58 36.8 0.0 64.6



#14

Carbon disulfide

Concen: 0.617 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VV010205.D

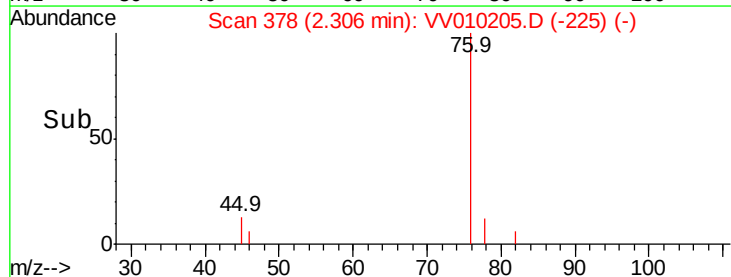
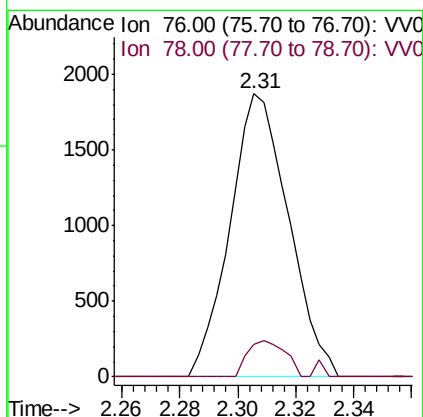
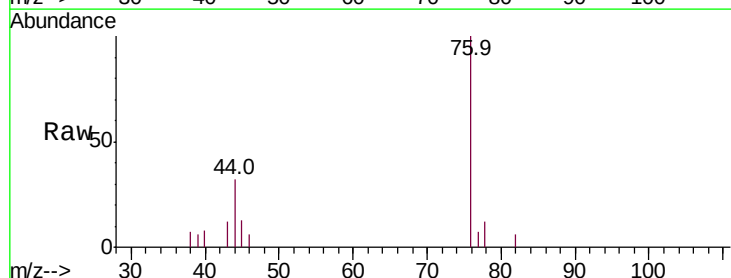
Acq: 09 Apr 2019 05:27

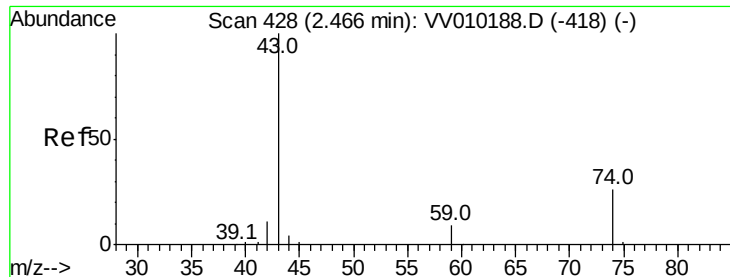
Tgt Ion: 76 Resp: 2627

Ion Ratio Lower Upper

76 100

78 11.7 7.1 10.7#





#15

Methvl Acetate

Concen: 1.022 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VV010205.D

Acq: 09 Apr 2019 05:27

Instrument :

MSVOA\_V

ClientSampled :

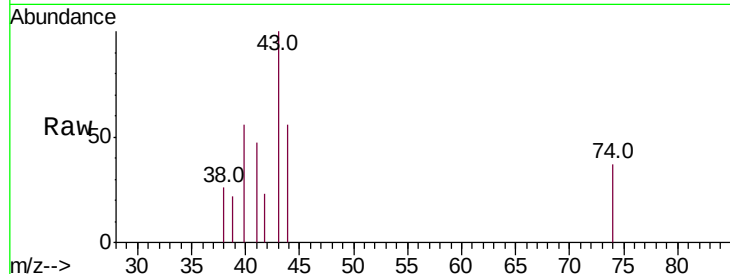
BFC30

Tot Ion: 43 Resp: 924

Ion Ratio Lower Upper

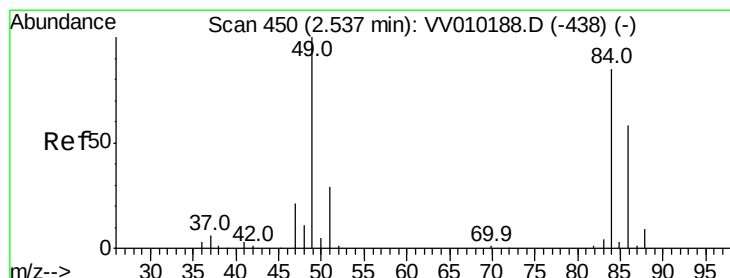
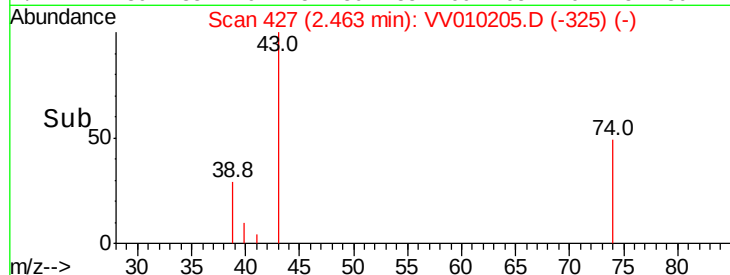
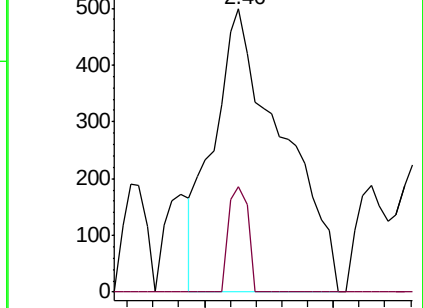
43 100

74 10.5 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 3.862 ug/L

RT: 2.53 min Scan# 447

Delta R.T. -0.01 min

Lab File: VV010205.D

Acq: 09 Apr 2019 05:27

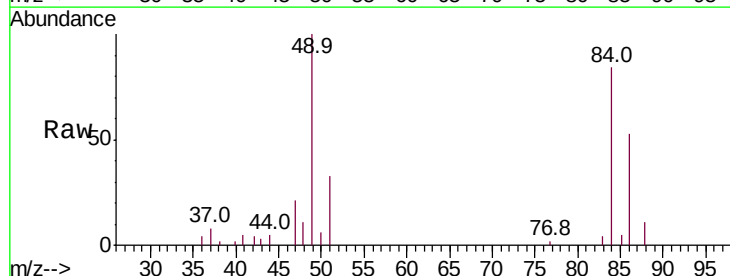
Tgt Ion: 84 Resp: 10184

Ion Ratio Lower Upper

84 100

49 118.4 84.3 156.5

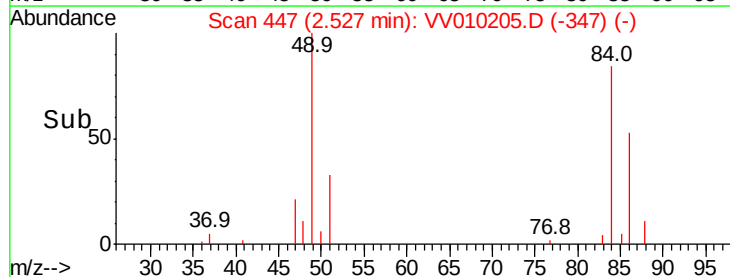
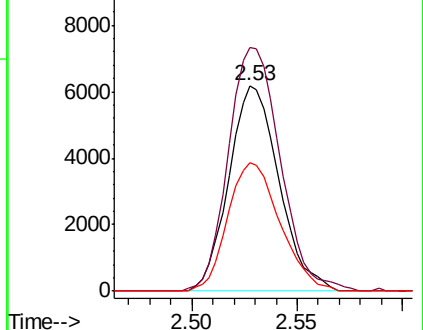
86 62.5 45.4 84.2

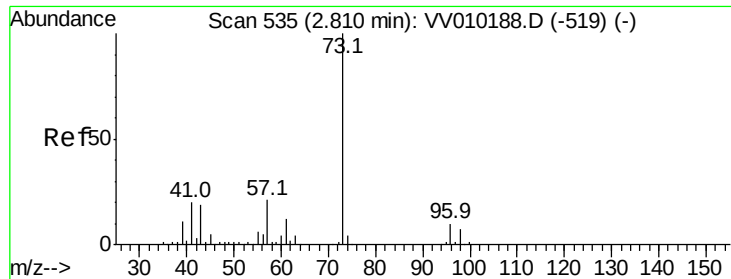


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

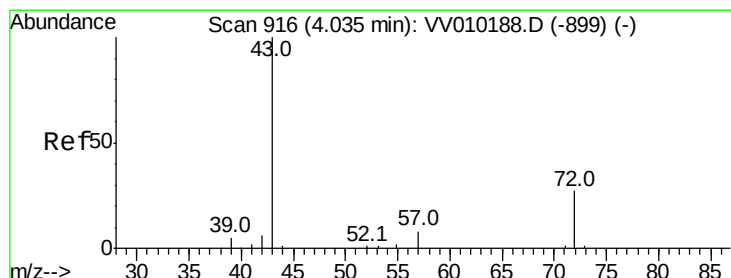
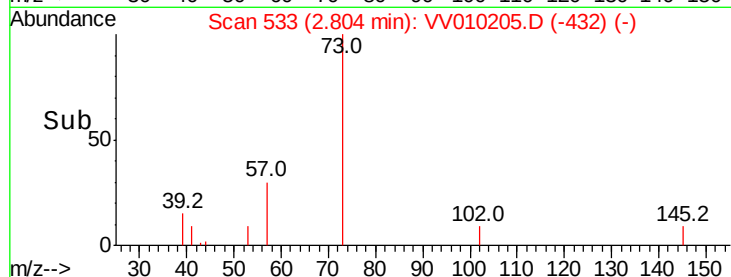
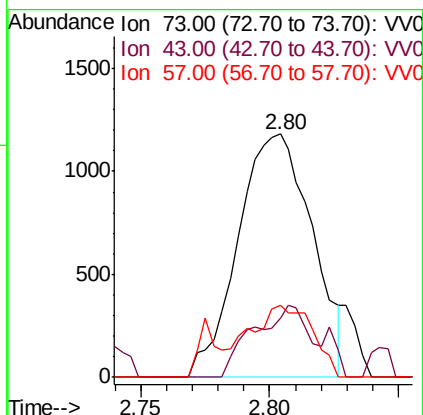
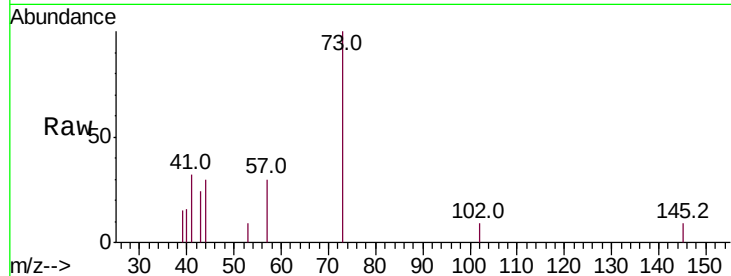




#17  
Methyl tert-butyl Ether  
Concen: 0.537 ug/L  
RT: 2.80 min Scan# 533  
Delta R.T. -0.01 min  
Lab File: VV010205.D  
Acq: 09 Apr 2019 05:27

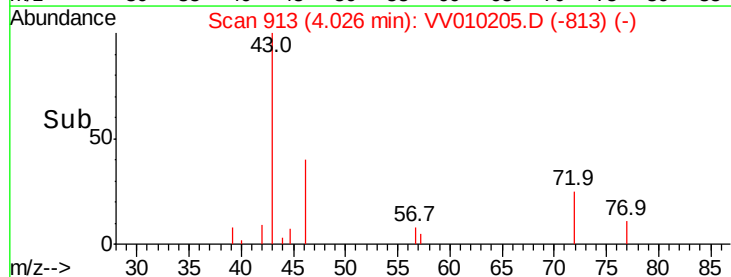
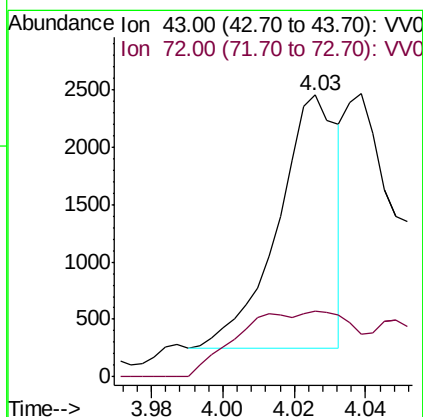
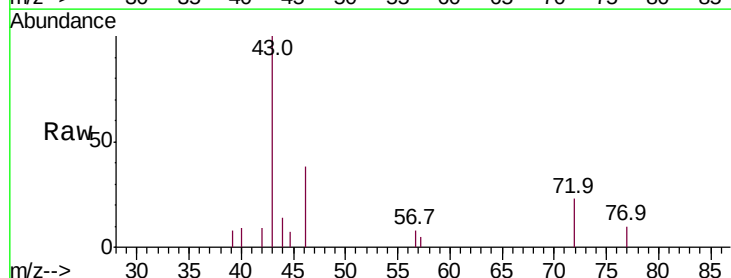
Instrument :  
MSVOA\_V  
ClientSampled :  
BFC30

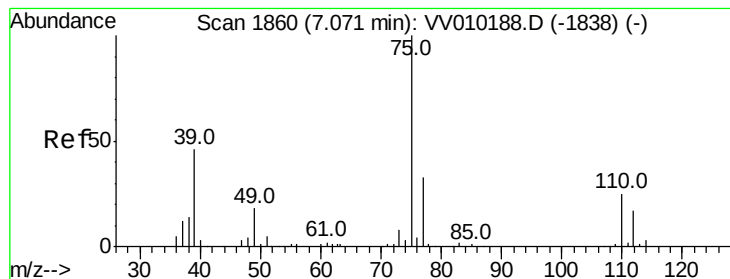
Tot Ion: 73 Resp: 2362  
Ion Ratio Lower Upper  
73 100  
43 14.5 15.5 23.3#  
57 3.0 16.8 25.2#



#21  
2-Butanone  
Concen: 4.125 ug/L  
RT: 4.03 min Scan# 913  
Delta R.T. -0.01 min  
Lab File: VV010205.D  
Acq: 09 Apr 2019 05:27

Tgt Ion: 43 Resp: 2554  
Ion Ratio Lower Upper  
43 100  
72 25.9 12.8 38.4



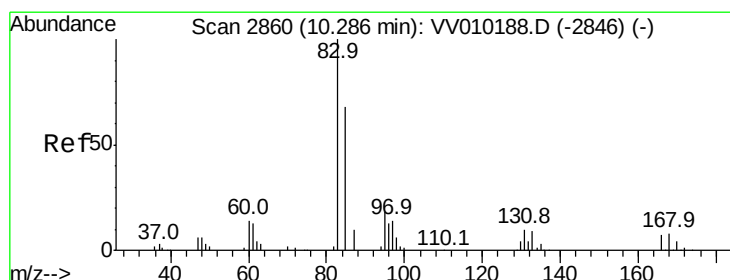
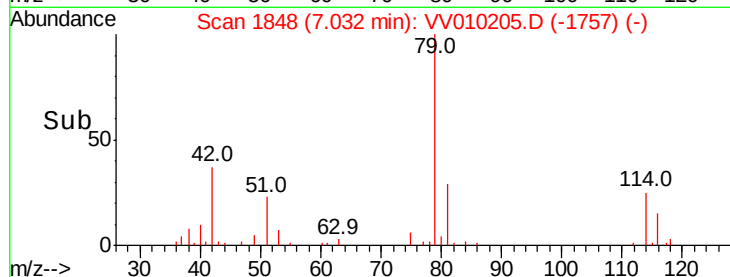
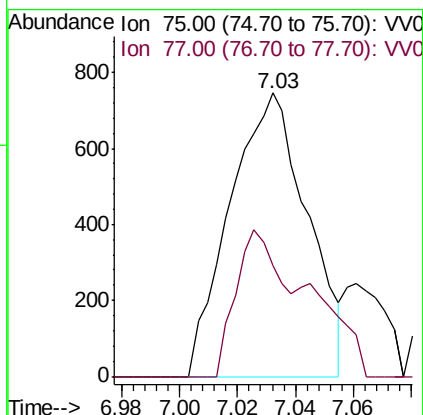
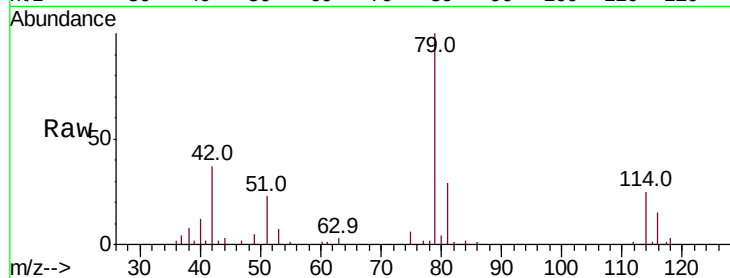


#42

cis-1,3-Dichloropropene  
Concen: 0.695 ug/L  
RT: 7.03 min Scan# 1848  
Delta R.T. -0.04 min  
Lab File: VV010205.D  
Acq: 09 Apr 2019 05:27

Instrument :  
MSVOA\_V  
ClientSampled :  
BFC30

Tot Ion: 75 Resp: 1381  
Ion Ratio Lower Upper  
75 100  
77 39.0 22.1 41.1



#58

1,1,2,2-Tetrachloroethane  
Concen: 0.597 ug/L  
RT: 10.28 min Scan# 2859  
Delta R.T. -0.00 min  
Lab File: VV010205.D  
Acq: 09 Apr 2019 05:27

Tgt Ion: 83 Resp: 933  
Ion Ratio Lower Upper  
83 100  
85 45.1 46.1 85.7#  
131 23.5 9.0 13.4#

